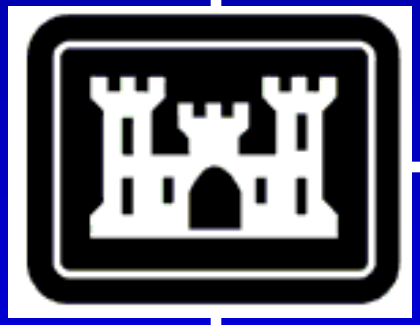
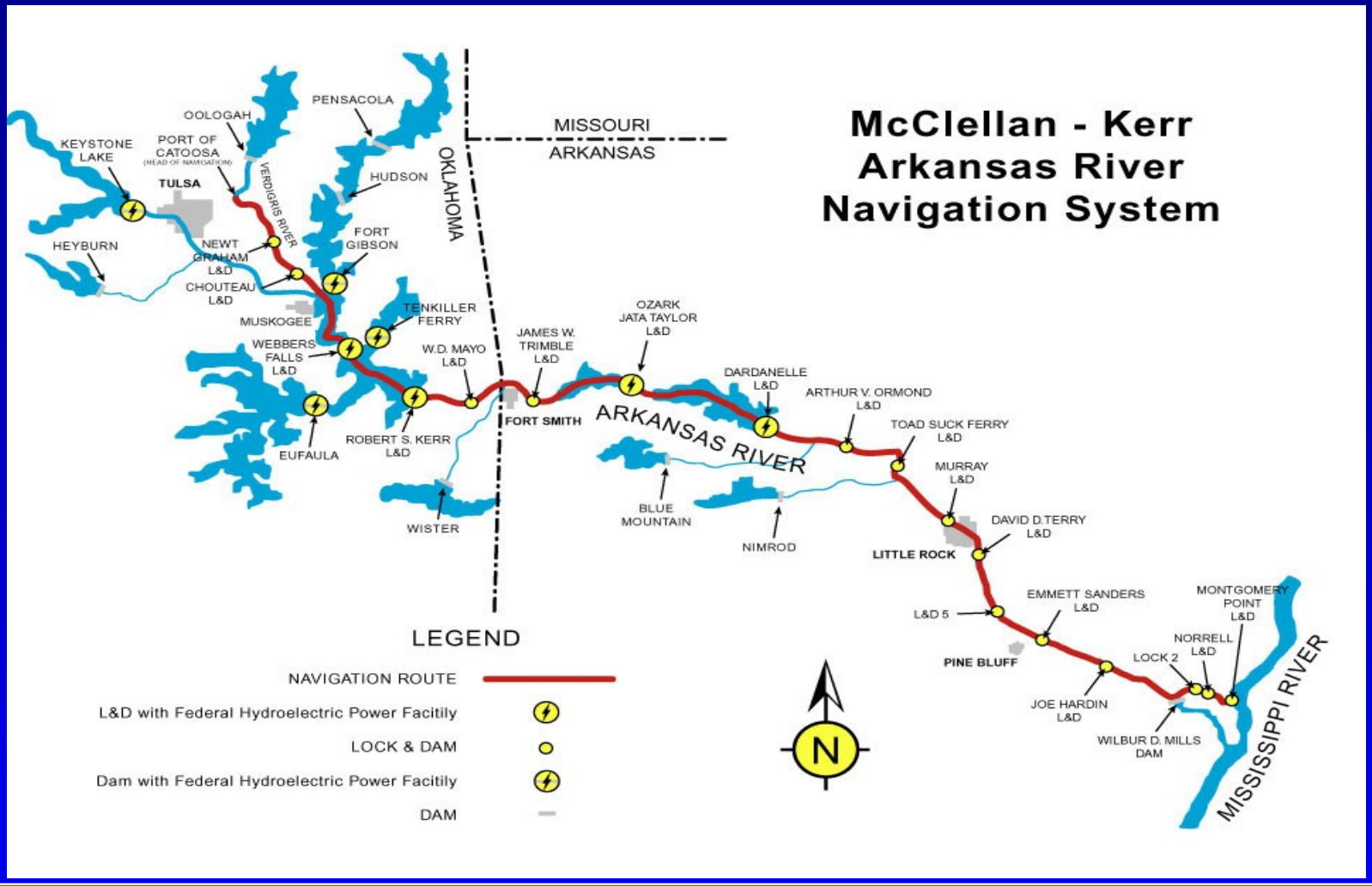
Tulsa & Little Rock Districts

ARKANSAS RIVER NAVIGATION STUDY



35TH Annual Navigation Conference
McClellan-Kerr Arkansas River Navigation System

Tulsa & Little Rock Districts



Study Origins and Authorizations

- Began as a Reconnaissance Study to Investigate Flooding near Fort Smith.
- With the findings of the Reconnaissance Study, Congress authorized the start of the Feasibility Study in 2000.

Current status of the Study

- The draft feasibility report and EIS were released for public review on April 8, 2005.
- Review period ends June 23, 2005

Alternatives:

Alternative A – No Action

Alternative B – Maintenance only

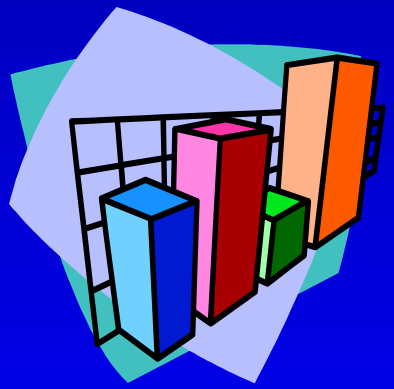
Alternative C – Alternative B + Operations only Flow Management Plan

Alternative D – Alternative C + 11-Foot Channel Depth

Alternative E – Alternative C + 12-Foot Channel Depth

Alternatives

- **Incremental Annual Net Economic Benefits Over the Baseline (50 Year Project Life)**
  - **Alternative A: $0**
  - **Alternative B: $0**
  - **Alternative C: $8,800,680**
  - **Alternative D: $9,711,290**
  - **Alternative E: $10,481,526**



USACE Selected Alternative

Alternative E

- Maintenance of existing Channel
- Operational Flow Management to minimize days of high flow
- 12 Foot Navigation Channel

Proposed initial Dredge Requirements for the Navigation System (in Cubic Yards) Arkansas

POOL	11 foot	12 foot
1	338,188	501,173
2	953,183	1,539,950
3	7,905	25,744
4	18,809	49,881
5	206,708	396,114
6	8,827	13,539

Proposed initial Dredge Requirements for the Navigation System (in Cubic Yards) Arkansas

POOL	11 foot	12 foot
7	154,000	409,200
8	74,800	173,800
9	149,600	328,900
10	258,500	544,500
12	385,000	682,000
TOTAL		4,664,801

Proposed initial Dredge Requirements for the Navigation System (in Cubic Yards) Oklahoma

POOL	11 foot	12 foot
13	574,147	945,186
14	59,359	117,639
15	1,621,817	2,193,923
16	1,390,640	2,036,134
17	357,265	574,276
18	278,429	453,380
TOTAL		6,320,538

Proposed Maintenance on the 12 foot Navigation System

- Arkansas
  - Maintenance Dredging Material
    - 782,500 cubic yards annually (inc of 580,000 cy)
- Oklahoma
  - Maintenance Dredging Material
    - 358,000 cubic yards annually (inc of 240,000 cy)

Mitigation

- Terrestrial Mitigation
- Mitigation for Threatened and Endangered Species
- Aquatic Mitigation

Terrestrial Mitigation

- Avoidance of high quality habitat
- Habitat creation in Oklahoma
  - 130 acres bottomland forest
  - 248 acres marsh habitat

Threatened and Endangered Species

- Interior least tern – island creation and monitoring
- American burying beetle - avoidance of potential habitat and minimization of impacts

Aquatic Mitigation

- Avoid valuable aquatic habitat
- Notch dikes and revetments
- Improve connections to backwaters
- Create islands
- Relocate select mussel fauna
- Relocate gravel bars
- Perform long-term monitoring and adaptive management

Current Schedule

- Draft report and EIS comment period ends June 23, 2005
- Final revisions to the report and EIS: June 24 – July 5, 2005
- Public review of final report and EIS: July 22-Aug. 21, 2005
- Edit final report and EIS: Aug 22 – Aug 30, 2005
- Record of Decision (ROD): August 30, 2005

Draft EIS Availability

- On-line at www.swl.usace.army.mil/projmgt/arkriverstudy.html
- Request CD
- Over 22 libraries listed in the meeting announcement

Questions?